



When it matters most.



2020/2021



Dear firefighters and rescue workers

You are looking at a new edition of our catalog – something we had not originally planned. But COVID-19 obliged us to make a change to our arrangements. We have an extremely challenging 12 months behind us. Despite this, we are proud to say we have managed to introduce many new product highlights in our range and have made improvements to the services we offer.

And we place particular emphasis on hygiene concepts. We help fire services tackle early prevention of the risks associated with exposure to hazardous substances. Our aim is to safeguard firefighters and rescue workers against acute and chronic damage to their health. Whether hygiene measures or contamination prevention are your main concern – we are here to advise you! We also offer workshops on operational hygiene as part of our SAFETYTOUR program. Also, have a look at our videos on YouTube, in which we provide tips on correct conduct before, during and after deployments. Want to find out more? Simply contact us.

Sustainability is another factor that is high on our everyday agenda. We use only high-quality materials to ensure that our products offer maximum durability, thereby providing you with sustainable solutions. We also comply with the most stringent manufacturing standards.

Our RANGER LITE range consists of gear that is perfectly adapted to changing deployment conditions in the wake of global warming. The suit for fighting wild fires (p. 56) is only one of the many exciting new products in this catalog.

By the way, we can also help you keep track of your deployments via an app! Our free doku112 app (p. 14) allows you to capture and organize all important information about your deployments.

Why not just take a browse through our catalog and see for yourself? Tip: You will find a useful overview of the details of the materials and membranes we use on page 79.

Or you can always visit us online at [s-gard.com](https://www.s-gard.com) for up-to-date information and news. You can also follow us on our social media channels: Instagram, Facebook, YouTube and LinkedIn.

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Our thanks go to the fire services of Düsseldorf and Mönchengladbach who gave us their active support during the photo shoot.



*«As far as I am concerned,
safety comes first. That's why
I wear S-GARD gear.»*



WE ARE YOUR PARTNER WHEN IT MATTERS MOST.

You fight fires and save lives. That requires courage, experience and reliance in your team and in your equipment.

So that you can feel safe in extreme situations, are optimally prepared and have the best possible protection, we can provide you with high quality firefighting clothing and modern training options. And we've been doing this for more than 130 years.

Based in Heinsberg in Germany, we develop firefighting clothing that protects you against high temperatures, moisture and toxic substances. We collaborate closely with experienced operational personnel and textile and clothing experts and are constantly at work to improve our technology, materials and equipment. We also participate in standards committees and research projects and actively contribute to the development of protection and quality standards. We see it as our task to make your work easier and safer.

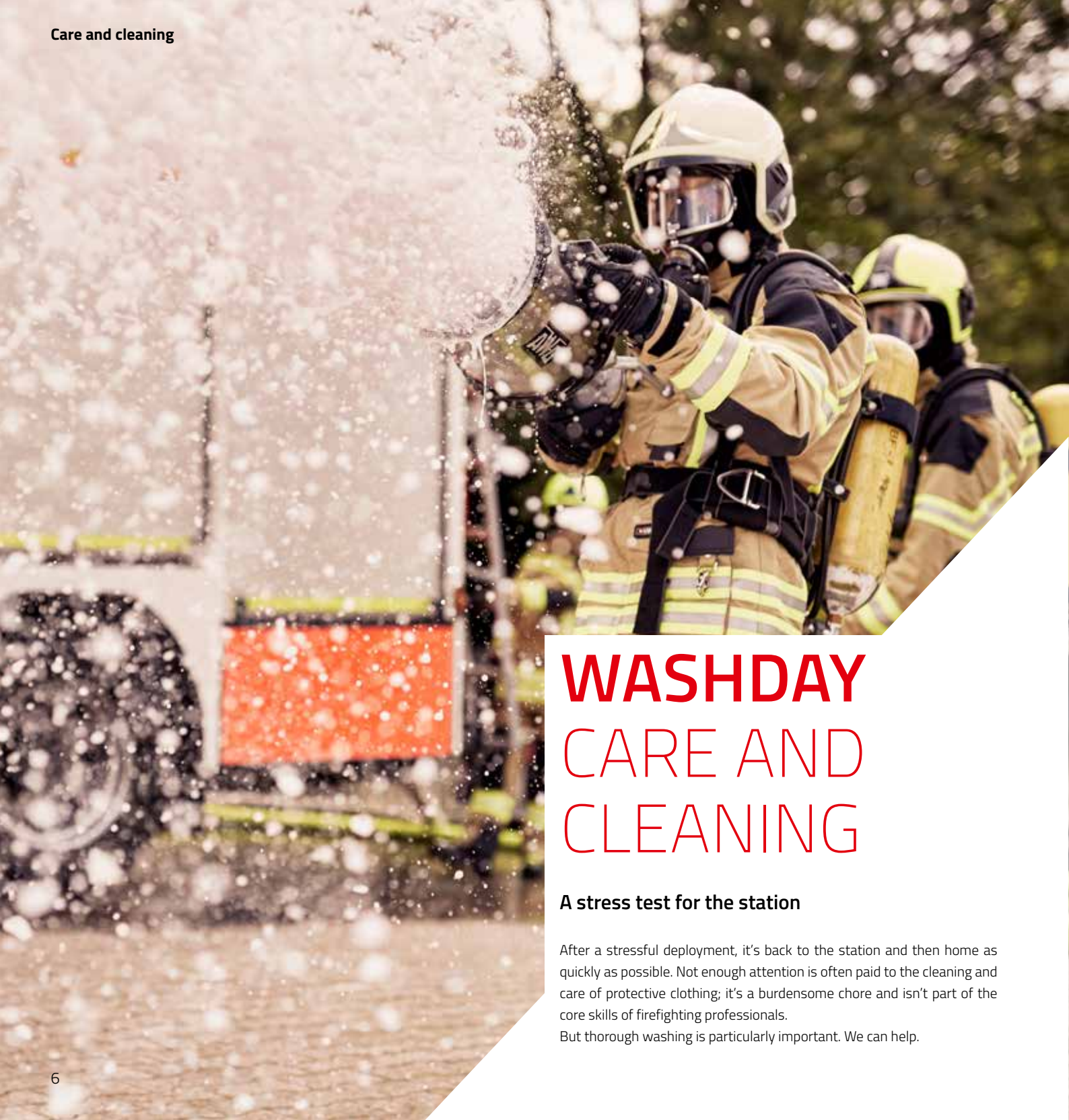
Continuous upgrading and refreshing of your knowledge will contribute to providing you with all-encompassing protection. In the form of our SAFETYTOUR, we provide education and further training sessions in which we employ a wide variety of teaching methods – from individual team workshops, to dialog sessions designed specifically for senior officers to our big annual event 'Best of' there's something for everyone.

We see ourselves as a one-stop shop partner and are also able to provide you with advice on aspects such as the care, cleaning and repair of firefighting clothing. Do you have questions, wishes or suggestions? Call us! We'll take the time for you.



**Your personal S-GARD consultant is there
for you every day from 8 a.m to 4 p.m.
(Central European Time)**

+49-2425-9909-0



WASHDAY CARE AND CLEANING

A stress test for the station

After a stressful deployment, it's back to the station and then home as quickly as possible. Not enough attention is often paid to the cleaning and care of protective clothing; it's a burdensome chore and isn't part of the core skills of firefighting professionals. But thorough washing is particularly important. We can help.

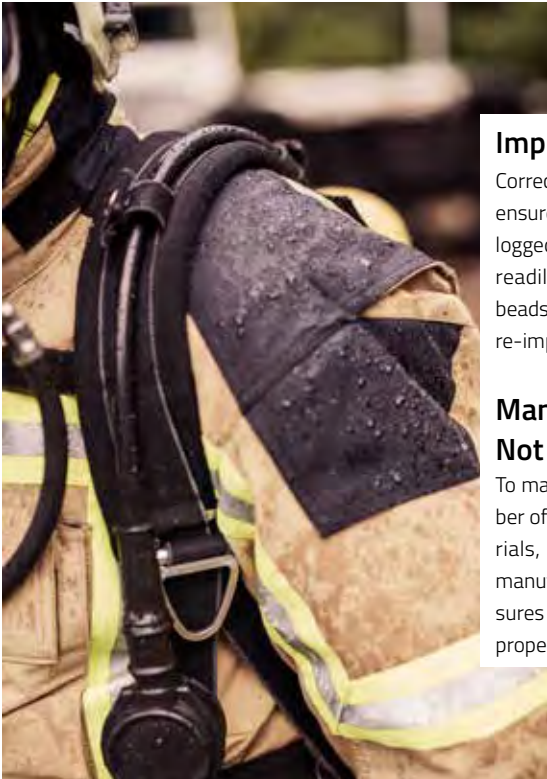


Turnout gear requires special care – not only so that the desired protective effect lasts as long as possible. The correct care also offers the best protection against pathogenic substances that can be retained in the fabric after use.

The S-GARD service

To relieve your station of this problem make sure clothing is processed in accordance with its level of soiling, S-GARD offers a special care and maintenance service. We train and accredit laundries in handling S-GARD firefighter protective clothing to ensure you can concentrate on your actual work. In addition, we hold seminars for fire departments and provide instructions and checklists for in-house care.

You can find information on our services online at s-gard.com



Impregnation is important

Correct impregnation is essential. The protective layer ensures that the upper fabric does not become waterlogged and also other particles will not adhere to it so readily. At the point where water no longer forms beads and rolls off the surface, clothing needs to be re-impregnated.

Many washes, shorter life? Not necessarily!

To make sure our protective clothing survives a number of washing cycles, we only use high quality materials, such as membranes supplied by the fabrics manufacturer Gore. The unsurpassed durability ensures a consistent appearance and the best protective properties.



Cleaning tip

You can use our special wash tool to clean your open jacket. Protective fabric strips cover the zipper: This prevents them from damaging your jacket during cleaning. Your jacket will also be thoroughly cleaned on the inside.

The S-GARD
Quality Standard

High-End Protective Clothing
We develop high-quality turnout gear that provides reliable protection against extreme heat, water and toxic substances. And we have been doing this for more than 130 years. All our high-tech products are standard-compliant and -certified.

Reliable Partners
From zips to membranes, we place great value on using top-quality brands when it comes to our protective clothing. For years now, we have been collaborating closely with qualified brand partners, including Gore, DuPont™, PBI®, 3M and Hainsworth®.

Research and Development
We are constantly improving our technology, materials and equipment features. For this we work closely with experienced firefighters and rescue workers, as well as with textile and clothing experts. We are also involved in standards committees and research projects, and actively contribute to the development of protection and quality standards.

All models listed here are available with segmented strips as standard.

 **FURTHER INFORMATION
IS AVAILABLE AT**
s-gard.com

S-GARD PRODUCT HIGHLIGHTS
AT A GLANCE

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EN 469:2005 Cl. 2	>>	>>	>>	>>	>>	>>	>>	>>	CLASS 1	CLASS 1	CLASS 1	STANDARD GENERAL
High-vis vest exemption	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
MOVE+ ease of movement	MOVE+ 3D	>>	>>	>>	>>	>>	>>	MOVE+ 3D	MOVE+ 3D	>>		
Inspection openings	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	JACKET
Extended back section	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>		
One flashlight holder with snap lock	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>		
One tool loop on left	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>		
Height-adjustable radio pockets	2 not height-adjustable	2	2	2	2	2		2	2	1		
Knitted cuffs with ITC system	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>		
PRX9000 technology shoulder	not for GORE® PARALLON™ system	>>		>>	>>			outside				
IRS-ready: DTS pocket and tunnel	>>	>>	>>	>>	>>			>>				
Integrated comfort suspender system	>>	>>	>>	>>	>>	>>		detachable	detachable		>>	PANTS
Two openings with integrated pocket	>>	>>	>>	>>	>>	>>	only openings	>>			only openings	
Leg width adjustment	>>	>>	>>	>>	>>	>>		>>	>>			
Preshaped leg seam with heel cut-out	>>	>>	>>	>>	>>			>>	>>		>>	
Boot lock hook, joins pants and boots	>>								>>			

«When I wear S-GARD gear,
I know I can fully concentrate
on my work.»

PRODUCTS AT A GLANCE

All clothing series for your work

You know exactly what your protective equipment has to cope with in everyday use and the high demands you place on coats and pants. All the details at a glance.

Find our product range online on [s-gard.com](https://www.s-gard.com)

Discover
our series
in detail



ULTIMATE SERIES

Developed for extreme situations

The latest developments in material technology meet modern, flexible and athletic design for the greatest possible protection and comfort.

EN 469:2005 Cl. 2

MOVE+ 3D



Chest pocket,
radio-compatible

Holder for an
angle-head flashlight

NEW: Segmented
reflective strips



gold black-blue

External
shoulder protectors
Ergonomically shaped
collar with chin guard and
Heat Seal design

Tool pocket on
the left upper arm

see
flap
p. 79

Waterproof multigrip
front closure

Cargo pockets with
snap-hook loops
and Load Control System

Knitted cuffs with ITC
system

ULTIMATE COAT

- MOVE+3D ease of movement with High Reach sleeve design
- Ergonomically angled S-Pocket design
- Body Language reflective strips
- PRX9000 technology in the shoulder area (not on GORE® PARALLON™ system)
- IRS-ready: DTS pocket, tunnel, tool loop on left
- Two chest pockets, radio-compatible

- Reinforced/extended grips on front pockets and adjusting elements
- Napoleon bag
- Reinforced cuff edges
- Segmented reflective strips: Hard-wearing and enhanced flexibility
- High-visibility vest exemption in combination with pants

Material variants:

DuPont™ Nomex® TITAN / GORE® PARALLON™ system | gold black-blue
Nomex® TITAN / AIRLOCK® | gold black-blue
Nomex® TITAN / AIRLOCK® | red black-blue
Nomex® TITAN / Fireblocker | gold black-blue

EN 469:2005 Cl. 2

Boot lock hooks

BEST PROTECTION, HIGH
MANEUVERABILITY

ULTIMATE PANTS

- Integrated comfort suspender system
- Padded knee area with PRX9000 technology
- Two cargo pockets with Load Control System
- Ergonomically angled S-Pocket design
- Boot lock hook, joins pants and boots
- MOVE+3D freedom of movement with Leg Mobility design and preformed sections
- PRX9000 technology on rear flap (not for GORE® PARALLON™ system)
- Access gusset and side placket
- Two openings with pocket pouches
- High-visibility vest exemption in combination with jacket

Material variants:

DuPont™ Nomex® TITAN / GORE® PARALLON™ system | gold black-blue

Nomex® TITAN / AIRLOCK® | gold black-blue

Nomex® TITAN / AIRLOCK® | red black-blue

Nomex® TITAN / Fireblocker | gold black-blue

gold black-blue

Grip strip

Easy Grip front closure
(not for GORE® PARALLON™ system)

Reinforced/extended grips on cargo pockets and adjusting elements

Padded knee area

Three leg width adjustments

Reinforced inner leg

Boot lock hooks

Reinforced cuff edges and heel cutout at the bottom of the pre-shaped leg seam



DETAILS

Easy access – safe storage

The difference is in the details: nearly all pockets on jackets and pants are angled for quick and easy access. The spacious yet close-fitting pockets are ideal for carrying the things you need. All adjustment parts are easy to operate when wearing gloves.

- 1 Three leg width adjustments
- 2 MOVE+3D ease of movement
- 3 Storage pocket for IRS
- 4 External shoulder protectors
- 5 Cargo pockets with Load Control System
- 6 Boot lock hooks

READY FOR ACTION! WHAT'S NEXT?

App functions at a glance

Set up a customized profile

Besides general personal information, such as gender, address, contact details and date of birth, you can also enter details of allergies and your blood group here. And you can enter an emergency contact.

Document fire and rescue operations

You have the option of entering the incident response number, time and duration of each deployment. In addition, you can document the names of your partners here, as well as details of weather conditions and outdoor temperatures.

Store important health risk information

Did you come into contact with infected persons or substances that are hazardous to health during a deployment? What safety equipment – face mask, eye protection, protective suit – was used during a deployment? You can also store this information in the doku112 app.

Export or print documentation

Accurate documentation of your deployments can help when submitting claims to insurance or health cover providers. Our app provides you with the option to download or print all the information about your deployments.

Unfortunately the app is currently only available in German.

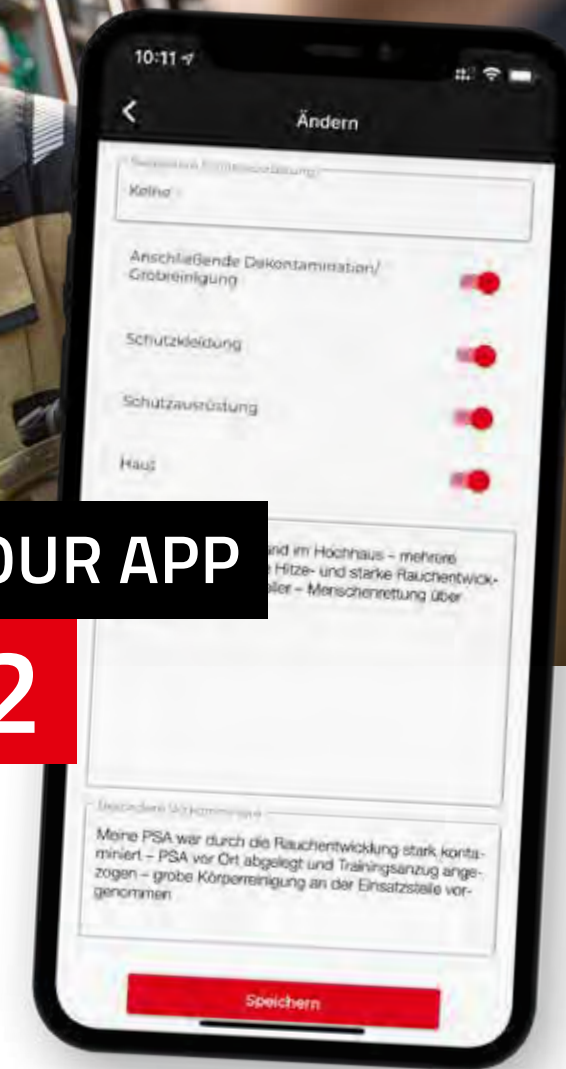
NEW FOR YOU: EDOCUMENTING DEPLOYMENTS VIA APP

Capture details of deployments effectively – with doku112

Keep track of your fire and rescue deployments. Our free doku112 app allows you to store all important information about your deployments, and you can also download or print this as required. Your personal data is only stored locally.

YOUR DEPLOYMENT – YOUR APP

doku112



EN 469:2005 Cl. 2

DTS/IRS
rescue system



gold black-blue

HERO 2.0 TITAN COAT

- MOVE+ ease of movement with High Reach sleeve design
- PRX9000 technology in the shoulder area
- IRS-ready: DTS pocket, tunnel, tool loop on left
- Two chest pockets, height-adjustable and radio-compatible
- Reinforced/extended grips on front pockets and adjusting elements
- Segmented reflective strips: Hard-wearing and enhanced flexibility
- High-visibility vest exemption

Material variants:
DuPont™ Nomex® TITAN / AIRLOCK® | gold black-blue

BEST INSULATION
WITH EASE
OF MOVEMENT

Bellows pocket
with knife pocket



gold black-blue

HERO 2.0 TITAN PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- PRX9000 technology on rear flap
- Access gusset and side placket
- Reinforced/extended grips on cargo pockets and adjusting elements
- Two openings with pocket pouches
- High-visibility vest exemption in combination with jacket

Material variants:
DuPont™ Nomex® TITAN / AIRLOCK® | gold black-blue

EN 469:2005 Cl. 2

Comfort suspender
system

PRX9000
kidney protectors

Grip reinforcement

Padded knee area
with PRX9000

Reinforced inner leg

Leg width adjustment

Reinforced cuff edges and
heel cutout at the bottom of
the pre-shaped leg seam

see
flap
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EN 469:2005 Cl. 2

DTS/IRS
rescue system



black-blue



red black-blue



black-blue red

PRX9000
technology in the
shoulder area

NEW: Segmented
reflective strips

Holder for an angle-
head flashlight

Knitted cuffs with
ITC system

SWISSGUARD COAT

- Two loops with D-rings beneath the chest pocket flaps
 - Body Language reflective strips
 - MOVE+ ease of movement with High Reach sleeve design
 - IRS-ready: DTS pocket, tunnel, tool loop on left
 - Two chest pockets, height-adjustable and radio-compatible
 - Reinforced/extended grips on front pockets and adjusting elements
 - Napoleon bag
 - Reinforced cuff edges
 - Segmented reflective strips: Hard-wearing and enhanced flexibility
 - High-visibility vest exemption
- Material variants:**
- DuPont™ Nomex® RSK / Fireblocker | black-blue
- DuPont™ Nomex® RSK / Fireblocker | red black-blue

HUNTER COAT

- Tool pocket on the left upper arm
 - Two loops with D-rings beneath the chest pocket flaps
 - MOVE+ ease of movement with High Reach sleeve design
 - IRS-ready: DTS pocket, tunnel, tool loop on left
 - Two chest pockets, height-adjustable and radio-compatible
 - Reinforced/extended grips on front pockets and adjusting elements
 - Napoleon bag
 - Padded shoulder area with aramid fleece
 - Reinforced cuff edges
 - Segmented reflective strips: Hard-wearing and enhanced flexibility
 - High-visibility vest exemption
- Material variants:**
- DuPont™ Nomex® RSK / Fireblocker | black-blue red

IMPROVED VISIBILITY
FOR ENHANCED
PROTECTION



black-blue

SWISSHUNTER PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- PRX9000 technology on rear flap
- Access gusset and side placket
- Reinforced/extended grips on cargo pockets and adjusting elements
- Preshaped leg seam with heel cut-out
- Padded knee area with aramid fleece
- Two openings with pocket pouches
- Reinforced leg cuff edges
- High-visibility vest exemption in combination with jacket

Material variants:

DuPont™ Nomex® RSK / Fireblocker | black-blue

DuPont™ Nomex® RSK / Fireblocker | red

Knife pocket



red

EN 469:2005 Cl. 2

Comfort suspender
system



Reinforced inner leg

Access gusset and
side placket

see
flap
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FIRE- FIGHTING ON SHIPS

Operations become safer - with 'EFAS'

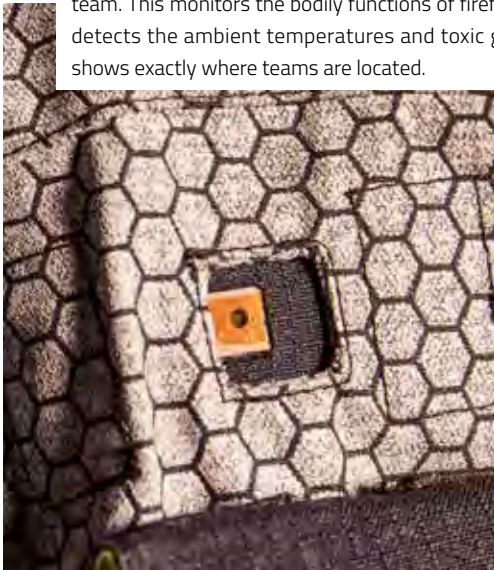
Special challenges require special measures. For this reason, S-GARD is participating in an innovative research project sponsored by the Federal Ministry of Education and Research (BMBF). The aim is to develop a deployment concept that optimizes the safety, efficiency and efficacy of firefighting operations onboard seagoing vessels.



This 'EFAS' system is designed to help fire services deal with the special hazards encountered at sea. Fires on ships are special challenges for both firefighters and operations controllers. Access to the fire is usually only possible from above. Narrow spaces between bulkheads and steep passageways make it difficult for the emergency services to reach the source of a fire. Even operations controllers may find it difficult to get an overview of the situation within a ship. Thick steel walls prevent radio transmission, so that it is near impossible to locate and make contact with firefighting teams. But all this is going to change.

New sensors, more safety

Special radio systems are planned that will ensure maintenance of communications within the interior of ships in the future. A special sensor system has been developed by the research team. This monitors the bodily functions of firefighting teams, detects the ambient temperatures and toxic gas levels and shows exactly where teams are located.



The protective suit rethought

As part of this research project S-GARD is developing a special protective suit and providing for the integration of the above technical systems within it. It is even necessary to consider the fit of the suit. Because firefighters have to advance through rising smoke to get to a fire, the opportunities for it to penetrate the suit must be minimized. The result is a streamlined, heat-reflecting full-body suit that allows full mobility of the wearer.



EN 469:2005 Cl. 2

DTS/IRS
rescue system



HERO 2.0 COAT

- MOVE+ ease of movement with High Reach sleeve design
- PRX9000 technology in the shoulder area
- IRS-ready: DTS pocket, tunnel, tool loop on left
- Two height-adjustable radio pockets with flashlight holder
- Reinforced/extended grips on front pockets and adjusting elements
- Segmented reflective strips: Hard-wearing and enhanced flexibility
- High-visibility vest exemption

Material variants:
DuPont™ Nomex® Tough / AIRLOCK® | black-blue

COMFORTABLE, RELIABLE
FIT WITH EVERYTHING
IN REACH

Bellows pocket
with knife pocket

HERO 2.0 PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- PRX9000 technology on the rear flap and in the knee area
- Access gusset and side placket
- Reinforced/extended grips on cargo pockets and adjusting elements
- Two openings with pocket pouches
- High-visibility vest exemption in combination with jacket

Material variants:
DuPont™ Nomex® Tough / AIRLOCK® | black-blue



IRS QLOCK

- Rescue and restraint sling pursuant to EN 358, EN 1498-A
- QLock quick-lock system
- Fastener (self-belay sling)
- Width: 8 cm
- Available sizes: XS–3XL (use your jacket size as a guide)
- Snap hook and fastener not required

IRS

- Rescue and restraint sling pursuant to EN 358, EN 1498-A
- Width: 8 cm
- Available sizes: XS–3XL (use your jacket size as a guide)



HEART LIGHT SNAP HOOK FOR IRS

- With a Trilock closure



FASTENER FOR IRS

- Self-belay sling

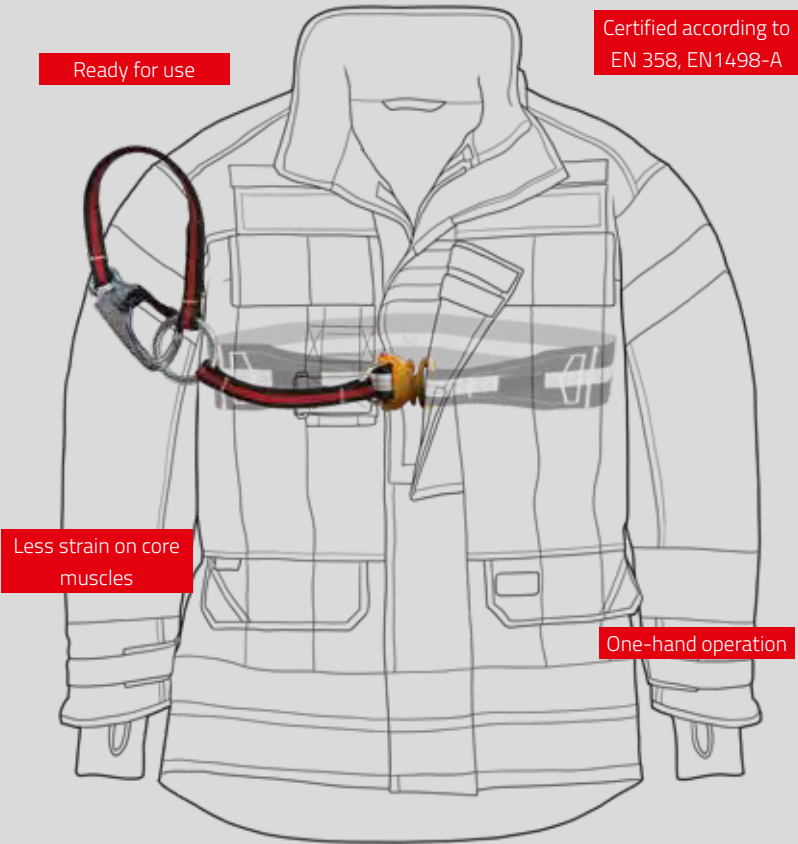


PULL-THROUGH AID (DUMMY)

- Fabric: 190 g/m² 100% cotton FR



Better than any standard



Areas of use

- Support and restraint
- Self-rescue
- Rescuing people
- Raising and lowering

Advantages

- Quickly ready for use with integrated protection
- Relieves the core muscles and prevents back injury
- Safe even if you lose consciousness
- Lightweight design that preserves the membrane
- Improves air circulation and breathing activity
- No snagging on building elements or in the vehicle

Use

The intended use is described in, among others, the German documents FWDV 1 "Grund-tätigkeiten – Lösch- und Hilfe-leistungseinsatz" and BGI/ GUV-I8651 "Sicherheit im Feuerwehrdienst".

DTS/IRS
RESCUE
SYSTEM

You are deployed on a slippery incline or are standing on a ladder. Together with a specialist in rope protection we developed the DTS/IRS rescue system to make it easier for you to rescue others or secure yourself. The major advantage for you is that the integrated rescue and restraint sling, or IRS for short, is an integrated part of the firefighter's coat and therefore always ready for use when you need it. Simply open the storage pocket (DTS) to pull out the fastener. And you can rely on its practical handling if you should ever be in danger and need rescuing.

The DTS/IRS system is an integrated feature of jackets from the ULTIMATE, HUNTER, SWISSGUARD, DYNAMATE PLUS and already for the HERO series.

EN 469:2005 Cl. 2

ITC System



ADVANCE PROGRESS COAT

- Two chest pockets, height-adjustable and radio-compatible
- Padded shoulder area with aramid fleece
- Knitted cuffs with ITC system
- Segmented reflective strips: Hard-wearing and enhanced flexibility
- Extended back section
- High-visibility vest exemption

Material variants:
DuPont™ Nomex® Tough / Fireblocker | black-blue
DuPont™ Nomex® NXT / Fireblocker | gold

LIGHTWEIGHT LAYER
CONSTRUCTION, SAFE
AND RELIABLE FEATURES



ADVANCE PROGRESS PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- Two openings with pocket pouches
- Reinforced leg cuff edges
- High-visibility vest exemption in combination with jacket

Material variants:
DuPont™ Nomex® Tough / Fireblocker | black-blue
DuPont™ Nomex® NXT / Fireblocker | gold

EN 469:2005 Cl. 2

Leg width adjustment



see
flap
p. 79



ADVANCE PROGRESS

FIGHTING AGAINST FATIGUE

You are exposed to flames and high temperatures in your work.
We protect you from heat stress.

If you compare the current hazard analyses of fire services around the world with the results of previous years you will notice that the number of burns and scalds is on the decline. The reason for this is that protective clothing now affords increasing amounts of insulation and can withstand ever higher temperatures. However, this goes hand in hand with a significant increase in strain caused by heat stress.

Rather than burns, the biggest risk faced by firefighters is circulatory collapse. The causes are overheating and exhaustion. This is exactly our starting point for the development of the ADVANCE PROGRESS series: We decided to opt for an especially lightweight layer design for the jackets and pants so that you are exposed to as little thermal stress as possible. Thanks to the low weight, wear comfort is significantly improved and the body can dissipate heat more rapidly because we use a hard-wearing material blend as an outer layer.

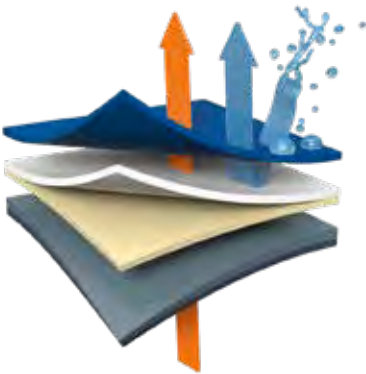
Lightweight layers with high-level protection

Simultaneously, the clothing affords you reliable protection from flames, heat, contamination and weather conditions. That is why we use a resilient material mix for the outer fabric. The membrane in the core layer makes the coat and pants impermeable to firefighting water or rain. In addition, the insulating lining protects the wearer against hazardous contaminants.

The lightweight layer design of ADVANCE PROGRESS series reduces the risk of heat stress – and keeps you efficient for longer.



Statistics in coming years will show whether and to what extent new product developments reduce the risk of fatigue and exhaustion. We at S-GARD have taken up the challenge.



EN 469:2005 Cl. 2

HIGH-VIS



black-blue

BASIC PLUS COAT

- Segmented reflective strips: Hard-wearing and enhanced flexibility
- High-visibility vest exemption

Material variants:
DuPont™ Nomex® Tough / Sigmatex | black-blue

HIGH QUALITY OF WORK-
MANSHIP FULFILLS
EVERY DEMAND
IN DAILY SERVICE



black-blue

BASIC PLUS PANTS

- Detachable suspenders
- MOVE+ ease of movement
- Two openings without pocket pouches
- High-visibility vest exemption in combination with jacket

Material variants:
DuPont™ Nomex® Tough / Sigmatex | black-blue

EN 469:2005 Cl. 2

Knee protectors

EN 469:2005 Cl. 2

Low weight

PRX9000 technology
in the shoulder area
at the outside

Radio pocket
with integrated
flashlight holder

NEW: Segmented
reflective strips



gold black-blue

Move+3D ease
of movement

Upper arm pocket
for digital radio

Radio pocket
with integrated
flashlight holder

Knitted cuffs
with ITC system

DYNAMATE PLUS COAT

- MOVE+3D ease of movement with High Reach sleeve design
- PRX9000 technology in the shoulder area
- IRS-ready: DTS pocket, tunnel, tool loop on left
- Two height-adjustable radio pockets with flashlight holder
- Reinforced/extended grips on front pockets and adjusting elements
- Segmented reflective strips: Hard-wearing and enhanced flexibility

Material variants:

DuPont™ Nomex® TITAN / GORE® PARALLON™ System 500 | gold black-blue
DuPont™ Nomex® TITAN / Fireblocker | black-blue

International version DYNAMATE:

PBI® / Fireblocker | gold-gold black-blue

AS LITTLE AS POSSIBLE,
BUT AS MUCH AS NECESSARY

EN 469:2005 Cl. 2

Knee protectors

Removable
suspenders

Move+3D ease
of movement

Padded knee area
with PRX9000
technology

DYNAMATE PLUS PANTS

- Removable suspenders
- MOVE+3D ease of movement
- Two openings with pocket pouches
- Optional: comfort suspenders

Material variants:

DuPont™ Nomex® TITAN / GORE® PARALLON™ System 500 | gold black-blue
DuPont™ Nomex® TITAN / Fireblocker | black-blue

International version DYNAMATE:

PBI® / Fireblocker | gold black-blue



gold black-blue

see
flap
p. 79

SOOT PARTICLES ON THE SKIN

An underestimated risk to health

It has mainly been necessary to date to ensure that fire protection clothing protects the wearer on exposure to extreme thermal conditions. In the future, it will also have to provide reliable physical barriers that prevent soot particles reaching firefighting professionals. Why is this?

Various toxic substances are released during fires. Formaldehyde, benzene and polycyclic aromatic hydrocarbons (PAHs) form when wood, plastic, furniture, electrical devices and construction materials burn. During operations, breathing protection masks reliably prevent toxic particles entering the respiratory tract; however, more and more studies are demonstrated that there is a connection between firefighting and an increased risk of cancer in firefighting professionals.

Absorption of soot particles

The apparent cause seems easy to identify. When taking off their protective clothing, the micro-particles on the surface of a suit are again dispersed and inhaled by the now unprotected firefighters. This can be prevented by better operational hygiene.

But there is also another previously underestimated factor that is responsible – absorption by the skin of soot particles. Through the smallest openings in clothing – in the head area, the sleeves, waistband and pant legs – particles can enter and be deposited unnoticed on the skin during firefighting. They accumulate in the pores that have become enlarged on exposure to heat and enter the body.



Developments to protective equipment

It is now no longer enough to ensure that protective clothing is adequately heat-resistant. It has become necessary to improve existing equipment to make sure the skin is protected against toxic particles. Hence, in our DYNAMATE PLUS protective suit and our NANO 2.0 FLAME PROTECTION HOOD, we've used Nomex® Nano Flex material supplied by DuPont™. This extremely dense but lightweight functional material reliably keeps soot particles from your skin.

Operational hygiene

Soot particles aren't just a danger during operations. Even afterwards, the risk to you should not be underestimated. Initial cleaning of your suit, shoes and helmet at the site of deployment is thus essential. It reduces the amount of soot that you could carry with you into the station. Careful separation also reduces transportation and thus the potential absorption of particles that are damaging to health. If you are going straight home after a deployment and not back to the station, never take the contaminated clothing with you. You will find more information on the correct care and cleaning of protective fire-fighting clothing on page 6.

On request, we can also introduce the nano-particle barrier into other products in our range. Please contact us!



**FURTHER INFORMATION
IS AVAILABLE AT
s-gard.com**

S-GARD
CLOTHING FOR TECHNICAL RESCUE
AND EVERYDAY WORK

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RESPONSER 2.0
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GARANT
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PROTEAM
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FIRSTGARD FR
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RANGER 2.0
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RANGER LITE
Page 56



STANDARD	EN 469 Cl. 1	>>	>>					
	EN ISO 11612:2009		>>	>>	>>	>>	>>	>>
	EN 15614:2007						>>	>>
MATERIAL	DuPont™ Nomex® RSK / Modacryl cotton / Flameliner	>>						
	DuPont™ Nomex® RSK / Flameliner	>>						
	Nomex® Tough / Flameliner		>>					
	Nomex®-Viscose 300 g			>>				
	Nomex®-Viscose 265 g					>>		
	Nomex®-Viscose Elastane		>>					
	Nomex® / Kevlar® / New wool / Lenzing						>>	
	Kermel®-Viscose				>>	Jacket		
DETAILS	Cotton modacrylic polyamide FR							>>
	With or without reflective striping (HIGH-VIS)		>>	>>	>>			
	Jacket with shoulder tunnels		>>	>>	>>	>>		
	Jacket with side pockets	>>	>>	>>	>>	>>		
	BIP-Pants available			>>				
	Jacket and pants can be zipped together						>>	>>

«In an emergency,
what counts is saving
lives. I put my trust
in my team and in
S-GARD.»



Your personal S-GARD consultant is
there for you every day from 8 a.m to
4 p.m. (Central European Time)
+49-2425-9909-0

SARTEC SERIES

Performance-enhancing protection

The new ergonomic design with special stretch zones and intelligent features gives you maximum freedom of movement during technical assistance assignments. It is one of the basic prerequisites for lasting performance.

EN 469:2005 Cl. 1

MOVE+3D

Radio pockets

NEW: Segmented
reflective strips

Reinforced/extended
grips on front pockets
and adjusting elements



fluorescent yellow black-blue

SARTEC COAT

- MOVE+3D ease of movement with High Reach sleeve design
- Ergonomically angled S-Pocket design
- Two cargo pockets with snap-hook loops and Load Control System
- Tool pockets on both upper arms
- Segmented reflective strips: Hard-wearing and enhanced flexibility
- Napoleon bag
- Waterproof multigrip front closure with tab
- Adjusters reinforced with reflective material and operable with gloves on
- Fluorescent yellow black-blue variant with special EN ISO 20471 Standard Cl. 2

Material variants:

DuPont™ Nomex® RSK / Modacryl cotton / Flamliner |
fluorescent yellow black-blue
DuPont™ Nomex® RSK / Flamliner | red black-blue



red black-blue

Helmet-compatible,
waterproof hood

MOVE+3D
design

Tool pocket

Holder for
an angle-head
flashlight

Stretch zone
around the
elbows

Raised
front section

Knitted cuffs
with ITC system

EN 469:2005 Cl. 1

Stretch zone with protectors around the knee

ATHLETIC DESIGN
FOR MAXIMUM
FLEXIBILITY AT WORK



fluorescent yellow black-blue

SARTEC PANTS

- Detachable comfort suspenders
- Two cargo pockets with Load Control System
- Ergonomically angled S-Pocket design
- Boot lock hook, joins pants and boots
- MOVE+3D freedom of movement with Leg Mobility design and preformed sections
- Reinforced/extended grips on cargo pockets and adjusting elements
- Reinforced inner leg cuff edges
- Adjusters reinforced with reflective material and operable with gloves on
- Fluorescent yellow black-blue variant with special EN ISO 20471 Cl. 1

Material variants:

DuPont™ Nomex® RSK / Modacryl cotton / Flameliner | fluorescent yellow black-blue

DuPont™ Nomex® RSK / Flameliner | red black-blue



red black-blue

Removable comfort suspenders

Stretch zone with protectors around the knee

Reinforced inner leg

Boot lock hooks



DETAILS

Flexible refinements – better control

Pockets you can flexibly adjust and access more quickly – that is standard for SARTEC. So are the practical grip tabs that make opening and closing zips easy even when you're wearing gloves. And no matter where your rescue assignment is, knee and elbow reinforcements protect against abrasion and give you optimum maneuverability.

- 1 Flashlight holder
- 2 Load Control System
- 3 MOVE+3D design
- 4 Stretch zone around the elbows
- 5 Removable suspenders
- 6 Gusset insert for maneuverability

EN 469:2005 Cl. 1

Two-ply design



black-blue

RESPONER 2.0 COAT

- MOVE+ sleeve design with pleats at the back for greater ease of movement
- Two patch side pockets with snap-hook loops
- One snap-hook
- Two patch radio pockets, both with antenna opening
- Knitted cuffs with ITC system
- One zipped inner pocket
- One inspection opening
- Segmented reflective strips: Hard-wearing and enhanced flexibility

Material variants:
DuPont™ Nomex® Tough/Flamelinex | black-blue

EN 469:2005 Cl. 1

Two-ply design



ATTACK 2.0
black-blue

FOR TECHNICAL ASSISTANCE –
ROBUST, LIGHTWEIGHT AND
INTELLIGENTLY DETAILED

ATTACK 2.0 PANTS

- Integrated comfort suspender system
- Access gusset with cover strip
- Reinforced cuff edges and heel cutout at the bottom of the pre-shaped leg seam
- Padded knee area with PRX9000
- Openings without pocket pouches
- High-visibility vest exemption in combination with jacket

Material variants:
Nomex® Tough / Flamelinex | black-blue

RESCUE LIGHT 2.0 PANTS

- Protectors around the knee
- Single-ply design
- Two side pockets
- Wide reinforcements on seams

Material variants:
Nomex® Comfort | black-blue

EN ISO 11612:2009

Knee protectors



RESCUE LIGHT 2.0
black-blue

SAFETY TOUR

OUT AND ABOUT PROMOTING SAFETY

Be prepared for ...

Technical assistance

Accidents underground

Breaking down doors

Smoke- and gas-related risks

Road accidents



Your professional education and advanced training provider: S-GARD

S-GARD is not only specialized in the manufacture of high-end firefighting apparel. We are also professionals when it comes to providing education and advanced training for firefighters and rescue personnel. And we know how diverse and challenging your job is. You are continually confronted with new situations. Technical requirements are becoming more challenging. It is becoming increasingly necessary to deal with the results of natural disasters. And that factors such as aggressive behavior and intrusive onlookers put further strain on your team. Our SAFETYTOUR provides professional education and advanced training to ensure that you are fully prepared for these challenges.

SAFETYTOUR is tailored to your needs and is more than just a straight-forward training course. Whether you are looking for station-based workshops, senior officer dialog sessions or 'Best Of' events: Gain new expertise and solid skills during a fascinating instruction session!

WORKSHOPS

We offer workshops on more than 40 different topics. They will provide you with the abilities to overcome a wide range of challenges in preparation for emergencies. On-site in your station – tailored to your team, your daily routine, and your equipment.

DIALOG SESSIONS

Expand your expertise in our dialog sessions designed especially for senior officers, and exchange information directly with other senior firefighters. The sessions include talks on a variety of key topics and reports on unusual deployments.

BEST OF

A range of SAFETYTOUR highlights in a single, unforgettable session: As part of an international team, perform exciting tasks under the guidance of experienced and skilled trainers. Besides subject matter relating to fire protection, technical assistance and CBRN, the focus is also on collaboration. After all, good teamwork makes it possible to master even major challenges.

Unfortunately all SAFETYTOUR informations, events and booking currently are only in German and for German-speaking regions.

UNLIMITED FREEDOM OF MOVEMENT IN ANY SITUATION

EN ISO 11612:2009

As HIGH-VIS



gold



black-blue

NEW: Segmented
reflective strips



black-blue



gold

ENDURANCE SERIES

Flame protection meets stretch

In daily service, you want clothing that is not only safe, but also flexible. Our ENDURANCE series therefore consists of the newly developed, elastic DuPont™ Nomex® material. This unites high flame protection with comfortable stretch for the first time - without a membrane. The body-hugging cut and many details give the daily service clothing its very modern look.

ENDURANCE DUTY JACKET

- Two chest pockets with the left pocket designed as a height-adjustable radio pocket
- Two side pockets with snap-hook loops
- Shorter front and longer back section
- Reinforced elbows
- Adjustable sleeve width
- Optional without reflective striping

Material variants:

Nomex®-Viscose Elastane | black-blue

Nomex®-Viscose Elastane | gold

ENDURANCE DUTY PANTS

- Zipped back pocket
- 2 side pockets, right with tool pocket, left with zippered small pocket
- Two thigh pockets with pen pockets
- With extended waistband
- Optional without reflective striping

Material variants:

Nomex®-Viscose Elastane | black-blue

Nomex®-Viscose Elastane | gold

EN ISO 11612:2009
A1, A2, B1, C1

As HIGH-VIS



black-blue

black-blue with
reflective striping

GARANT DUTY JACKET

- Shoulder flaps and tunnels
- Two chest pockets; the left pocket is designed as a height-adjustable radio pocket
- Two side pockets; the left pocket has a snap-hook loop
- Two zipped inner pockets
- Adjustable sleeve width
- Inspection opening
- Optionally without reflex fixtures and side pockets

Material variants:
DuPont™ Nomex®-Viscose 300 g | black-blue
DuPont™ Nomex®-Viscose 300 g | black-blue with reflective striping

EXTRA-ROBUST AND DURABLE – FOR EVEN
MORE SAFETY AT WORK

EN ISO 11612:2009
A1, A2, B1, C1

As HIGH-VIS



black-blue



black-blue
BIP-Pants

black-blue with
reflective striping

GARANT HIGH VIS DUTY PANTS

- Two back pockets
- Two side and bellows pockets on each side
- HIGH-VIS additionally with reinforced knees
- Optional without reflective features

Material variants:
DuPont™ Nomex®-Viscose 300 g | black-blue
DuPont™ Nomex®-Viscose 300 g | black-blue with reflective striping
DuPont™ Nomex®-Viscose 300 g | black-blue BIP-Pants with reflective striping

EN ISO 11612:2009
A1, A2, B1, C1

Also as HIGH-VIS



black-blue



black-blue with
reflective striping

PROTEAM DUTY JACKET

- Two chest pockets; the left pocket is designed as a height-adjustable radio pocket
- Two zipped inner pockets
- Adjustable sleeve width
- Inspection opening
- Optional reflective features

Material variants:

KERMEL®-Viscose | black-blue
KERMEL®-Viscose | black-blue with reflective striping

CLASSIC WORK CLOTHES – WITH
OPTIONAL REFLECTIVE STRIPING

EN ISO 11612:2009
A1, A2, B1, C1

Also as HIGH-VIS



black-blue



black-blue with
reflective striping

PROTEAM DUTY PANTS

- Two back pockets
- Two side and bellows pockets on each side
- Optional reflective features

Material variants:

KERMEL®-Viscose | black-blue
KERMEL®-Viscose | black-blue with reflective striping

EN ISO 11612:2009
A1, A2, B1, C1

Blouson cut



black-blue

FIRSTGARD FR DUTY JACKET

- Two superimposed breast pockets
- Two side pockets
- Additional radio pocket accessible from the outside
- Inspection opening

Material variants:

DuPont™ Nomex®-Viscose 265 g | black-blue
KERMEL®-Viscose | black-blue (for combination with
PROTEAM duty pants, p. 51)

THE MOST FLEXIBLE CLOTHING
FOR DAYTIME DUTY

EN ISO 11612:2009
A1, A2, B1, C1

Pleats



black-blue

FIRSTGARD FR DUTY PANTS

- Two back pockets
- Two bellows pockets

Material variants:

DuPont™ Nomex®-Viscose 265 g | black-blue



Your personal S-GARD consultant
is there for you every day
from 8 a.m to 4 p.m.
(Central European Time)

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EN 15614:2007 A1

Wildland

High stand-up collar
with chin protector

Tapered chest pocket with
holder for angle-head
flashlight

Napoleon pocket with
covered zip

Segmented
reflective strips

Adjustable
sleeve width



yellow black-blue



black-blue red

Adjustable
radio pocket
(MAXFLEX)

RANGER 2.0 COAT

- Arms-up construction
- Napoleon bag
- Right inside pocket
- Stretch zones under the arms

- Shorter front and longer back section
- Breathable reinforcements
- Velcro fasteners

Material variants:

DuPont™ Nomex® / Kevlar® / New wool / Lenzing |
yellow black-blue
DuPont™ Nomex® / Kevlar® / New wool / Lenzing |
black-blue red

**TWO-PIECE OR OVERALLS?
RANGER 2.0 CAN DO BOTH**



black-blue red

RANGER 2.0 WAISTBAND PANTS

- Six belt loops
- Zipped back pocket
- Two zipped side pockets
- Two thigh pockets with cargo bellows
- Stretch zones in knee, seat and crotch areas
- Breathable reinforcements
- Velcro fasteners

Material variants:

DuPont™ Nomex® / Kevlar® / New wool / Lenzing |
yellow black-blue
DuPont™ Nomex® / Kevlar® / New wool / Lenzing |
black-blue red

EN 15614:2007 A1

Connector zip



yellow black-blue

Half-height elasticated
waistband elevated in
the back

Premolded knee with
knee pocket for knee pad

Segmented
reflective strips

Boot-lock hook

Adjustable hem

EN 15614:2007 A1
EN ISO 11612:2009

MOVE+3D



Ergonomic
standup collar

Angled chest
pocket

Zipped
Napoleon pocket

Zipped front
pockets

Segmented
reflective strips

Adjustable
sleeve width

Radio pocket

Panel with
velcro strip

black-blue red

RANGER LITE JACKET

- Microphone holder on both sides
- Zip for connecting jacket and pants
- MOVE+3D ease of movement with High Reach sleeve design
- Shorter front and longer back section

Material variants:
Cotton modacrylic polyamide FR | black-blue red

LOW WEIGHT AND PROTECTION IN ONE:
PERFECT FOR WILDLAND FIREFIGHTING

EN 15614:2007 A1
EN ISO 11612:2009

Connector zip

**RANGER LITE
WAISTBAND PANTS**

- Six belt loops
- Covered back pocket
- Two covered side pockets
- Two cargo pockets
- Velcro fasteners
- Zip for connecting jacket and pants

Material variants:
Cotton modacrylic polyamide FR | black-blue red



black-blue red

Preshaped
knee section

Segmented
reflective strips

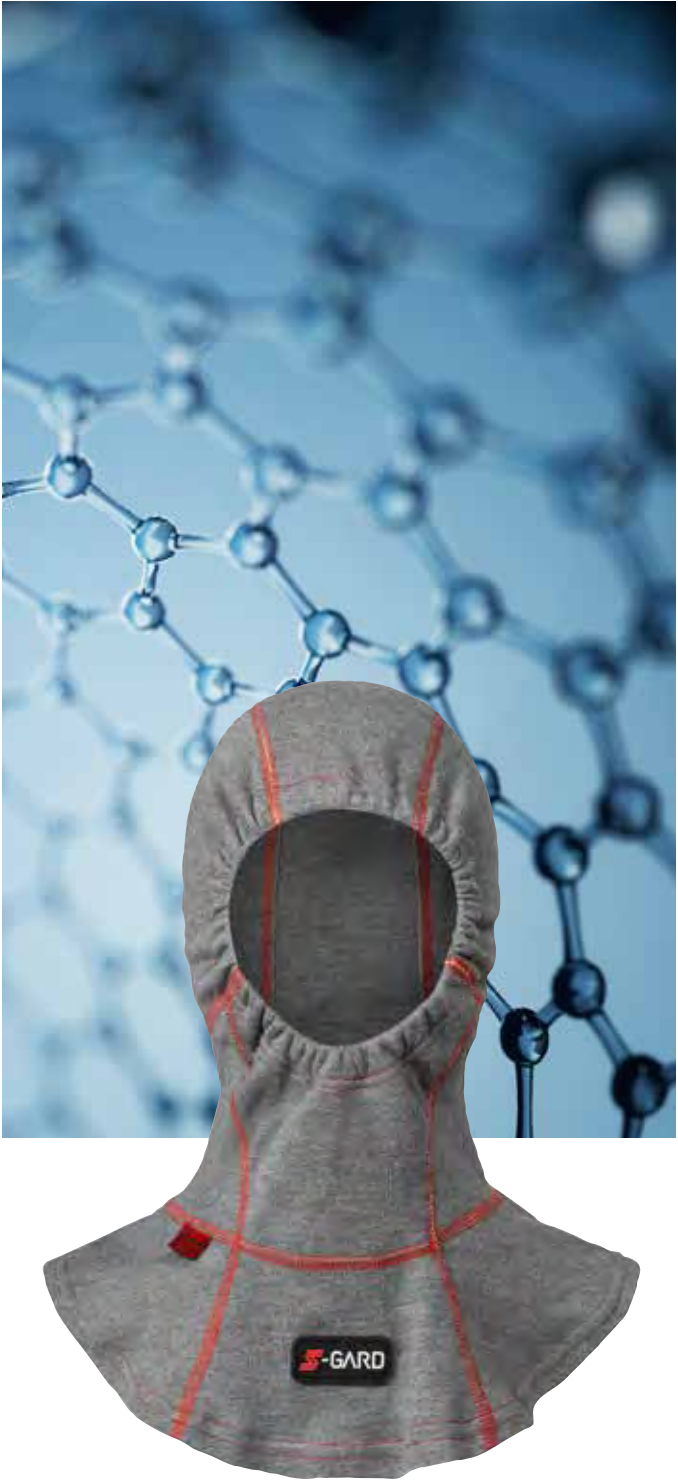
Adjustable hem



NANO- HOOD

Particle protection for head and neck

Even though you protect your body during operations, smoke gas particles generated by fires can penetrate the smallest openings and accumulate on your skin. Our new NANO 2.0 FLAME PROTECTION HOOD with DuPont™ Nomex® nano-technology reliably prevents this. S-GARD managing director Bruno Schmitz explains why the hood will make your operations even safer.



Mr. Schmitz, why does the head and neck area need special protection?

"It can get very hot in the head region during firefighting. The pores open up, sweat collects on the neck and the absorption capacity of the skin is increased. Helmet and mask protect a large part of the head. The rest is usually protected by a flame protection hood."

There are already flame protection hoods on the market. What makes your nano-hood different to these?

"Knitted material is employed in most flame protection hoods. This is soft, comfortable and very flexible. In contrast to the rest of the protective clothing, these hoods normally do not have a membrane. So they do not provide reliable particle protection in the head and neck area. So we've developed the nano flame protection hood. It serves as a reliable barrier against particles and covers the unprotected areas very reliably."

What makes the Nomex® Nano Flex material so unique?

"This dense functional material is very heat- and flame-resistant. At the same time, it is very lightweight, elastic and breathable. So we were able to create the perfect supplement to the firefighting suit, helmet and mask – a hood that reliably protects the wearer against smoke gas particles and is still extremely comfortable."

For what groups is the nano flame protection hood intended?

"With our nano flame protection hood, we've developed a comfortable protective product for the whole team. The hood offers quick, easy yet very effective protection against particles and should be a component of all protective equipment. It is the ideal complement to the protective gear worn by all operational personnel."

NANO 2.0 FLAME PROTECTION HOOD

- EN 13911:2017-conform
- Material: Nomex®-Viscose / Nano Flex

WINDSTOPPER® INSTEAD OF A SWEATER

The new trend in firefighting apparel

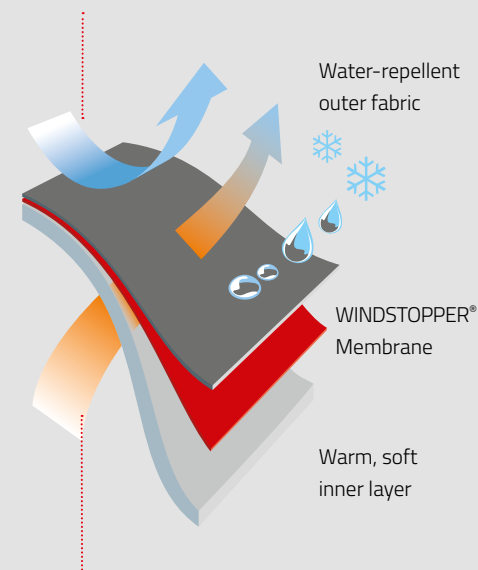
It is important that your duty clothing is light and easy to move in during your strenuous daily work. And it must also adequately protect you. Our windproof WINDSTOPPER® OFFICER PRO jacket meets all these needs. It protects you from cold and moisture and, at the same time, it is highly breathable. Its special structure makes this possible.

The special material used for our WINDSTOPPER® jacket consists of three layers: a water-repellent outer fabric, a windproof membrane and a warm, soft layer on the inside. So this lightweight jacket will regulate your body temperature and remain comfortable to wear in any situation, regardless of how adverse the weather conditions or how strenuous your work may be.

The OFFICER PRO is equipped with everything you need for your routine duties, including numerous pockets, molded sleeves and a stand-up collar. The practical details and excellent material properties mean that WINDSTOPPER® products have far surpassed traditional sweaters in recent years.

Absolutely windproof

Maintains body heat and protects the wearer from the cold in poor weather conditions



Maximum breathability

Prevents overheating and moisture buildup because water vapor can escape freely



Absolutely windproof

Highly breathable

Stand-up collar

Full-length two-way front zip

Shoulder flaps and tunnels

Sleeve pocket with flap and pen slot

Two zipped side pockets



black-blue

OFFICER PRO WINDSTOPPER®

- Width-adjustable seam with drawstring
- Hanging loop on the outside
- Black reflective patches
- Sporty cut
- Two zipped side pockets
- One zipped inner pocket
- Ergonomically shaped sleeves
- Longer back section
- Stretch zones on back and sleeves

Material variants:

WINDSTOPPER® laminate | black-blue



EN 343:2010
Class 3/3

Three-ply design

PROTECTED IN ANY WEATHER



GARDIAN WEATHER PROTECTION JACKET

- Collar with integrated hood
- Shoulder flaps and tunnels
- Two side pockets with zips
- Left sleeve pocket
- Inspection opening

Material variants:
Polyester-cotton / Sigmatex | black-blue

COMFORTABLE FIT AND
COMPREHENSIVE PROTECTION

Reliable weather protection

Three-ply design



MAJOR SOFTSHELL JACKET

- Cover strip with push studs
- Shoulder tunnel and flaps
- Two breast pockets with flaps and push studs
- Two angled side pockets with zips
- Adjustable sleeve cuff

Material variants:
Three-ply laminate polyester, polyurethane | black-blue

Pleasantly warming

Numerous pockets

SO COLD DOESN'T
STAND A CHANCE



dark-blue

COMMAND FLEECE JACKET

- Shoulder flaps and tunnels
- Breast and sleeve pocket with pen pocket
- Two side pockets with zips

Material variants:
Micro-Fleece | dark-blue

ONE JACKET, MANY FUNCTIONS

Windproof

Three-ply design



steel blue

STORMGARD FLEECE AND WEATHER RESISTANT JACKET

- Stand-up collar
- Shoulder flaps and tunnels
- Stable front closure with windproof liner and chin protector
- 2 chest pockets, right as a Napoleon pocket
- Two zipped side pockets
- Reinforced shoulders, elbows, forearms and sides
- Elastic sleeve cuffs and draw-cord in the hem
- With reflective piping

Material variants:
Micro-Fleece | steel blue

Flame-retarding

Pleasantly warming

SUITABLE FOR FIRE SERVICE USE THANKS TO
FIRE-RETARDANT PROPERTIES

PREPARED FOR
ALL WEATHERS

For cold and wet days

Multilayer construction



black-blue

OPERATOR FLEECE JACKET FR

- EN 1149-5, EN ISO 11612
- Single-ply fleece jacket
- Short and ergonomic cut
- Two zipped side pockets
- High-closing stand-up collar
- Panel with zip and snaps
- Drawcord at the waist

Material variants:

Modacrylic/cotton fleece FR | black-blue



black-blue high-vis yellow

FLAMESHELL SOFTSHELL JACKET FR

- EN 1149-5, EN 469 Class 1
- Arms-up design
- Height-adjustable radio pocket (MAXFLEX)
- Tapered chest pocket with flap
- Two side pockets with covered zip
- Segmented reflective strips
- High stand-up collar with chin protector
- Shoulder flaps and tunnels
- High-visibility vest exemption

Material variants:

Softshell FR | black-blue high-vis yellow



black-blue

DRYGARD WEATHER PROTECTION JACKET

- EN 343:2010, Class 3/3
- Removable, three-way adjustable storm hood
- High-closing collar
- Water-repellent two-way front zip with liner and chin protector
- One chest pocket with water-repellent zip
- One patch chest pocket with flap
- Two side pockets with water-repellent zip
- Arms-up design

Material variants:

Three-ply laminate, polyester with PU membrane | black-blue



black-blue red

INSULATOR INSULATING JACKET

- Extremely lightweight and compressible
- Reversible
- One zipped chest pocket
- Two side pockets with covered zip
- Elastic sleeve cuffs and hem
- Black reflective patches

Material variants:

Polyester | black-blue red



HEIGHT RESCUE

High protection with full flexibility

Your work in high-elevation or air rescue operations is strenuous and quite often dangerous. You are always on the move, sweating – and the wind is unrelenting. To make sure you are always at your most efficient during operations we developed SKYGARD and SKYLITE rescue clothing that is specially adapted to the demands of height rescues.

No matter whether you are travelling in a rescue helicopter, abseiling from a cliff face, or working in a rope rescue unit or an offshore installation – your work clothing needs to be light and fit well and protect you from wind and rain as well as from injury. And it needs to be extremely durable. That is why we incorporate special materials like resilient fabric in the SKYLITE series. The advantage: It dries quickly and is windproof but your sweat escapes quickly to the outside. The weatherproof SKYGARD series features a GORE® membrane to afford additional protection from rain and snow.



MAXFLEX pockets are arranged so you can reach them when wearing a safety belt – even with gloves.



Flexible and maneuverable

We make use of preformed sleeves and legs, stretch zones, gusset inserts in the pants and a special sleeve cut to ensure you have adequate room to maneuver and feel comfortable in your clothing – these concepts are also used in outdoor and mountain sports clothing. Another special feature is that the coat and pants are loose enough to wear functional base layers underneath. At the same time, they fit close enough not to be disruptive when climbing.

Cleverly designed for safety – easy to use

All pockets are easily accessible when you are wearing a safety belt – even with gloves. That is ensured by zips with large pulls, one-hand pull cords and tabs. These zips allow you to open the vents underneath the arms and on the thighs. There is also an adjustable hood suitable for wearing with a helmet that provides for a clear view – particularly good when the weather is stormy. Reflective striping for better visibility rounds off the features of the SKYGARD and SKYLITE series.

EN 343:2010 Cl. 3/3

Water-repellent zips



red-fluorescent yellow

SKYGARD COAT

- Waterproof, helmet-compatible storm hood with peak, visual field and volume adjustment integrated in the stand-up collar
- Four waterproof cargo pockets on the sleeve with integrated fastening loops
- Two angled breast pockets with optimized access angle
- Ventilation zips underneath the arms
- Water protection gaiters on the sleeve seam
- Contoured reflective striping

Material variants:
GORE-TEX two-ply laminate | red-fluorescent yellow

FULLY WEATHERPROOF
HEIGHT RESCUE CLOTHING
FOR THE MOST DIFFICULT
OPERATIONS

EN 343:2010 Cl. 3/3

Boot lock hooks



red-fluorescent yellow

SKYGARD PANTS

- Internal connecting system for jacket and pants
- Elastic, removable Y-suspenders
- Knee pocket made of Kevlar® with PRX9000
- Two cargo pockets at calf height
- Water-protection gaiters on the leg seams
- Boot lock hooks in the seams

Material variants:
GORE-TEX two-ply laminate | red-fluorescent yellow

Connecting system
for jacket and pants

MAXFLEX cargo pocket

Leg vent

Cargo pocket at calf height

Wind-repellent and
climate regulation

Wind hood



red-fluorescent yellow

SKYLITE COAT

- Stretch zones on back, sleeves and sides
- Hood with peak, visual field and volume adjustment integrated into the stand-up collar
- Ventilation zips
- Four cargo pockets on the sleeve with integrated fastening loops
- Two angled breast pockets

Material variants:
DURAGARD | red-fluorescent yellow

HIGHLY FUNCTIONAL
TWO-PART SUIT FOR HIGH-
ALTITUDE OPERATIONS



red-fluorescent yellow

SKYLITE PANTS

- Internal connecting system for jacket and pants
- Elastic, removable Y-suspenders
- Knee pocket made of Kevlar® with PRX9000
- Stretch zones on the sides, buttocks and knees
- Two front slot pockets
- Boot lock hooks in the seams

Material variants:
DURAGARD | red-fluorescent yellow



FIRE SERVICE ACCESSORIES

Even more for your protection and your team

You can find an overview here of our fire service accessories that provide you additional protection from flames.

IDENTIFICATION COLLAR

- Extremely fire-resistant
- Individually printable
- Optionally available with loop material for applying a back label
- Modacryl cotton
- Choose the size that matches your S-GARD jacket model



Available for all overcoat models



MULTIFUNCTION VEST

- Two microphone holders, two side and two radio pockets (right pocket with safety snap-hook)
- Double front zip with quick-release buckles
- Side width adjuster with clamp buckles
- Fastening option for two back ID signs
- Modacryl cotton



We can customize your protective clothing with name badges and coats of arms on request. Our service staff will be pleased to advise you.

 **FOR MORE INFORMATION PLEASE VISIT**
s-gard.com

FLAME PROTECTION HOOD

- EN 13911:2004
- Elastic band in visual field
- Extra-flat seams
- Interlock, KERMEL®-Viscose
- **With particle barrier:** You'll find information on the NANO 2.0 FLAME PROTECTION HOOD made of DuPont™ Nomex® Nano Flex material see from page 58ff.



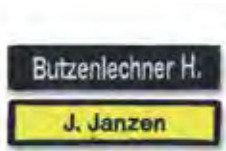
EMBLEMS / SHOULDER INSIGNIA

- Customized designs (coats of arms, etc.)
- Includes fastening and sewing



NAME EMBLEMS

- Customized production
- Carrier material to match the clothing



BACK ID SIGNS

- 3M™ Scotchlite™, 38 x 8 cm, one-sided with hook and loop set
- Two-line ID signs and other formats are available



PROTECTIVE PONCHO

- Protects the compressed air breathing apparatus in heat box training
- Nomex® Tough



«I work hard every day to make sure you are fully protected when duty calls.»

SERVICE BINDING IS BETTER

We are at your side to address your questions and concerns with regard to the selection, maintenance and repair of your protective clothing. We will also immediately provide you with fresh supplies if your own stock of protective clothing is low in an emergency.



Friendly repair and service

From reflective striping to zips and the membrane – firefighting operations place heavy strain on your protective clothing and can even damage it. This is where our experienced repair service staff are at your side. They check your protective jackets and pants without delay and repair them professionally.

To ensure you get your service clothing back as soon as possible, we design and manufacture S-GARD protective clothing so that we can get it back into shape with little technical cost and effort. Our principle of “repair friendliness” saves you time and money.



S-GARD



Care and maintenance

With the right care, you'll maintain the protective effect of your firefighting clothing and extend the wearing comfort and retain its appearance. We can help you with this through our various care seminars and accredited partner laundries.

You'll find information and tips about care and maintenance from page 6ff.

Emergency supply

In the event of unforeseeable occurrences such as contaminations for which your protective clothing is inadequate, we will take care of ensuring a fast emergency supply of the protective clothing you need.

Test run

Put the protective properties and comfort of our S-GARD service clothing to the test and get to know all the features and functions directly in deployment situations. We would be pleased to provide you with the latest model ranges for test purposes so you can see the properties of our clothing systems for yourself.

Service close to you

You can find an overview of all our services and events on our website. It contains, for instance, detailed information on size tables as well as care and maintenance instructions. You can also download repair and return slips from our website free of charge.

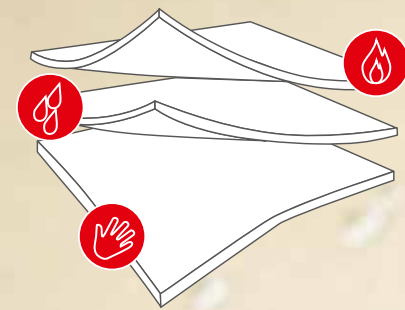
You can find detailed information relating to services and your contact partners at s-gard.com/service



MATERIALS AND TECHNOLOGIES

Robust layers for challenging operations

The changing requirements of your job demand a great deal of your protective clothing. Here at S-GARD, we develop products that combine all the essential protective functions by incorporating the latest materials and different layer structures. Everywhere, at any time.



The three layers

Our clothing typically consists of three layers. The **flame-resistant upper fabric** protects you and the layers underneath it from mechanical forces such as friction and is also highly tear-resistant.

A **moisture barrier** repels rain and firefighting water. Simultaneously, a breathable membrane ensures sweat is reliably transported away from the body to the outside.

Finally, the **lining** makes the clothing comfortable to wear.

These three layers work together to create a functional air cushion – the so-called thermal insulation layer that protects you from the severe heat of a fire. That's because air is a poor conductor of heat. By the way, the same principle is used when it comes to manufacturing winter clothing, just without the flame-proof materials.

We will be pleased to assist you in person in your search for the layer structure that is right for you.

Take a look inside:
our technologies
at a glance



Why is this subject so important?

23 x
faster speed at which heat and cold
can travel to the body through wet
textiles in comparison to dry textiles.

2°C
make all the difference. When your
core body temperature increases by
2°C, your ability to perform starts to
decline.

12°C
more heat against the skin is perceived
as painful.

THE MOST IMPORTANT UPPER TEXTILES

- PBI®**
- Highest tear-resistance on the market
 - Soft and supple, even under the influence of heat
 - Does not break up after contact with flames
 - 205 g/m²

- TITAN**
- Premium textile of the Nomex® range
 - Spacers for additional insulation
 - Especially heat-resistant thanks to an additional air cushion
 - Very good wash resistance thanks to a high Nomex® content
 - Long-lasting impregnation
 - 220 g/m²

- TOUGH**
- Most popular material on the market
 - Spun-dyed
 - Robust, resistant to friction and tearing
 - 195 g/m²

- RSK**
- Textile specially developed in collaboration with S-GARD
 - Now even more resistant to friction and tearing thanks to ripstop
 - Good wash resistance thanks to a high Nomex® content
 - Long-lasting impregnation
 - 205 g/m²

- NXT**
- A further development of TOUGH
 - Especially colorfast
 - Very resistant to friction
 - Long-lasting impregnation
 - 195 g/m²

GORE® PARALLON™ SYSTEM

Now available in two variants

We use the GORE® PARALLON™ system in our ULTIMATE coats and pants. It was developed specifically to reduce the hazards of heat stress burns – especially where there is exposure to liquids such as firefighting water and rain. The lightweight, breathable and waterproof GORE® PARALLON™ system is a protective shield against severe heat and scalding that does not impinge on your agility.



Protected by GORE® PARALLON™

GORE® PARALLON™ 600 combines breathable heat insulation with GORE-TEX moisture barriers: It consists of two membranes with the thermal insulation between them. Its special design ensures high breathability: sweat is quickly transported away from the skin. Simultaneously, the system prevents moisture from penetrating from the outside. This keeps the insulating layer dry and reduces the risk of heat stress, scalds and burns. So you can keep going in tough conditions!

That extra bit of flexibility

Protective clothing should be as comfortable as possible to wear and pleasantly lightweight – regardless of how tough the going gets. This is why the innovative GORE® PARALLON™ 500 was launched on the market. It offers outstanding comfort and excellent flexibility combined with a very high level of protection.

The benefits of both materials at a glance:

GORE® PARALLON™ 600

- Best heat protection
- Highest thermal protection combined with very good breathability
 - Reliable heat protection even in wet conditions
 - Ensures consistently extended escape time!

GORE® PARALLON™ 500

- Flexible and comfortable
- One of the most lightweight solutions on the market
 - Good flexibility
 - Unique combination of excellent breathability, very good heat protection and wearing comfort

We use the following Gore products:

- GORE-TEX Moisture Barrier with GORE® CROSSTECH® Product Technology
- GORE-TEX Fireblocker with GORE® CROSSTECH® Product Technology
- GORE-TEX Flameliner with GORE® CROSSTECH® Product Technology
- GORE-TEX Moisture Barrier with GORE® CROSSTECH® Product & AIRLOCK® Spacer Technology
- GORE-TEX Moisture Barrier with GORE® CROSSTECH® Product Technology & GORE® PARALLON™ System

The right membrane for your needs

Technology overview of Class 2 turnout gear



We are well aware of the different and specific needs of our customers and have the right combination of textiles to suit every requirement. We use GORE-TEX membrane technologies in the majority of our products. That's because they are permanently waterproof, reliably reduce heat stress and now feature GORE® CROSSTECH® functionality. Combined with breathable, high-quality materials, our products are your guarantor for the greatest possible protection, wearing comfort and a long service life.

MEMBRANE	LAYERED STRUCTURE	UPPER FABRIC	SERIES
...►... GORE® PARALLON™ SYSTEM Greatest heat and fire protection The unique membrane system with unsurpassed breathability coupled with excellent heat insulation – even in wet conditions.		PBI® TITAN	DYNAMATE PLUS ULTIMATE, DYNAMATE PLUS
...►... AIRLOCK® High freedom of movement and protection from heat and wet The spacer system ensures the air is reliably locked inside and offers the best flexibility available on the market.		TITAN TOUGH	ULTIMATE, HERO 2.0 TITAN HERO 2.0
...►... FIREBLOCKER Low weight, optimum moisture regulation This hard-wearing classic is one of the best-selling membranes of its kind. The clothing remains watertight and in form even despite frequent use. New: protection against contamination with blood and other bodily fluids.		PBI® TITAN RSK TOUGH NXT	DYNAMATE ULTIMATE, DYNAMATE PLUS SWISSGUARD, HUNTER, SWISSHUNTER ADVANCE PROGRESS ADVANCE PROGRESS



Follow us on



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S-GARD – Success with leading market partners



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